### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

28101

7590

10/22/2004

VAN DYKE, GARDNER, LINN AND BURKHART, LLP 2851 CHARLEVOIX DRIVE, S.E. P.O. BOX 888695 GRAND RAPIDS, MI 49588-8695 EXAMINER
HESS, DOUGLAS A

ART UNIT

PAPER NUMBER

3651

DATE MAILED: 10/22/2004

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/813,742	03/31/2004	Jurgen Hug	MAN03 P-114	5133

TITLE OF INVENTION: APPARATUS FOR DISCHARGING LOAD CARRIERS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1370	\$300	\$1670	01/24/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Change of correspondence address (or Change of Correspondence Address from PTO/SB/12) attached.  The Address' indication (or "Fee Address" indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.  ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)  PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.  (A) NAME OF ASSIGNEE  (B) RESIDENCE: (CITY and STATE OR COUNTRY)  Please check the appropriate assignee category or categories (will not be printed on the patent):  Issue Fee  Publication Fee (No small entity discount permitted)  Advance Order - # of Copies  Payment of Fee(s):  A check in the amount of the fee(s) is enclosed.  Payment of Fee(s):  A publication Fee (No small entity discount permitted)  Advance Order - # of Copies  Deposit Account Number  5. Change in Entity Status (from status indicated above)  A publication Fee (No small entity discount permitted)  A poplicant claims SMALL ENTITY status. See 37 CFR 1.27.  B. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27.  B. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).  The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attomey or agent, or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.				or <u>Fax</u>	(703) 746-4000			
Note: A certificate of mailing on an only be used for domentic mailings of an only be used for domentic mailings of the property of the prop	INSTRUCTIONS: This for appropriate. All further con indicated unless corrected to maintenance fee notification	m should be used for tran respondence including the l below or directed otherwise is.	smitting the ISSU Patent, advance ordin Block 1, by (a)	E FEE and PUBL ders and notification specifying a new	ICATION FEE (if request on of maintenance fees we correspondence address	ired). Blocks 1 through 5 s will be mailed to the current ; and/or (b) indicating a sepa	hould be completed where correspondence address as trate "FEE ADDRESS" for	
VAN DYKE, GARDNER, LINN AND BURKHART, LLP 2851 CHARLEVOIX DRIVE, S.E. P.O. BOX 888095 GRAND RAPIDS, MI 49588-8695  APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 10/813,742 03/31/2004  APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 10/813,742 03/31/2004  Jurgen Hug MAN03 P-114 5133  APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 10/813,742 03/31/2004  Jurgen Hug MAN03 P-114 5133  TITLE OF INVENTION: APPARATUS FOR DISCHARGING LOAD CARRIERS  APPLY TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(5) DUE DATE DUE  EXAMINER ART UNIT CLASS-SUBCLASS  HESS, DOUGLAS A  10/813,742 10/813,742 10/813,743 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744 10/813,744			any change of address)		Note: A certificate of	Note: A certificate of mailing can only be used for domestic mailings of the		
have its own certificate of mailing or transmission.  VAN DYKE, GARDINER, LINN AND BURKHART, LLP  2851 CHARLEVOIX DRIVE, S.E. P.O. BOX 88695  GRAND RAPIDS, MI 49588-8695  APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORY DOCKET NO. CONFIRMATION NO.  10813,742  03/31/2004  APPLICATION SAPPARATUS FOR DISCHARGING LOAD CARRIERS  APPLICATION SAPPARATUS FOR DISCHARGING					Fee(s) Transmittal. This certificate cannot be used for any other accompanyi			
2851 CHARLEVOIX DRIVE, S.E. P.O. BOX 88695  GRAND RAPIDS, MI 49588-8695  Brand RAPIDS, MI 49588-8695  APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/813,742  03/31/2004  JUNGAN BRAND RAPIDS FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/813,742  03/31/2004  JUNGAN BRAND RAPIDS FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/813,742  03/31/2004  JUNGAN BRAND RAPIDS FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/813,742  03/31/2004  JUNGAN BRAND RAPIDS FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/813,742  APPLICATION SEPERATURE FOR DISCHARGING LOAD CARRIERS  APPLICATION FIRST SAME AND SEPERATURE FOR DISCHARGING LOAD CARRIERS  APPLICATION FIRST SAME AND SEPERATURE FOR DISCHARGING LOAD CARRIERS  APPLICATION FIRST SAME AND SEPERATURE FOR SAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)  PLEASE NOTE Luless an assignme is identified below, no assignee data will appear on the patent. If an assignment is deminded below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.  (A) NAME OF ASSIGNEE  (B) RESIDENCE: (CITY and STATE OR COUNTRY)  PLEASE NOTE: Links an assignme is identified below, no assignee data will appear on the patent. If an assignment of the fee(s) is enclosed.    State Fee   Publication Fee (No small entity discount permitted)   Advance Order - # of Copies   Publication fee (No small entity discount permitted)   Advance Order - # of Copies   Publication fee (No small entity discount permitted)   Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).  The Director of the USFTO is required above. The analysis of the substitute of the patent is not one supplicant, a registered attorney or agent, or the assignment of th	28101 7590 10/22/2004				papers. Each additional paper, such as an assignment or formal drawing, must			
APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/813,742 03/31/2004 Jurgen Hug MAN03 P-114 5133  ITTLE OF INVENTION: APPARATUS FOR DISCHARGING LOAD CARRIERS  APPLY TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1370 \$300 \$1670 01/24/2005  EXAMINER ART UNIT CLASS-SUBCLASS HESS, DOUGLAS A 3651 198-457030  I. Change of correspondence address or indication of "Fee Address" (37 178 1.569). (1) the names of up to 3 registered patent attempts of the patent front page, list (1) the names of up to 3 registered patent attempts of the names of up to 3 registered patent attempts of the names of up to 2 registered patent attempts of agents, if no name is 3 listed, no name will be printed.  3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)  PLEASE NOTE: Unless an assignce is identified below, no assignee data will appear on the patent. If an assignce is identified below, the document has been filled for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filling on segments. In on name is 3 listed for NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)  PLEASE NOTE: Unless an assignce is identified below, no assignce data will appear on the patent. If an assignce is identified below, the document has been filled for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filling on segments. If no name is 3 listed for the patent of the patent of the patent. If an assignce is identified below, the document has been filled for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filling on segments. If no name is 3 listed for the patent of the patent of the patent. If an assignce is identified below, the document has been filled for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filling on segment. If an assignce is identified below, the document has been filled f	2851 CHARLEVOIX DRIVE, S.E.			RT, LLP	Cell hereby certify that the States Postal Service addressed to the Mai	rtificate of Mailing or Transhis Fee(s) Transmittal is bein with sufficient postage for fir ill Stop ISSUE FEE address PTO (703) 746-4000 on the company of	smission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below	
APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/813,742 03/31/2004 Jurgen Hug MAN03 P-114 5133  ITTLE OF INVENTION: APPARATUS FOR DISCHARGING LOAD CARRIERS  APPLN TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1370 \$3100 \$1670 01/24/2005  EXAMINER ART UNIT CLASS-SUBCLASS  HESS, DOUGLAS A 3651 198-457030  I. Change of correspondence address or indication of "Fee Address" (37 CFR 1,303).  I. Change of correspondence address or indication of "Fee Address" (37 CFR 1,303).  I. Change of correspondence address or reaction of the patent front page, list (1) the names of up to 3 registered patent attorneys or agents. R. alternatively. (2) the name of a single from PTO/SB/122) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or more recent) attached. Use of a Customer PTO/SB/47, Rev (3-02 or	GRAND RAPIDS,	MI 49588-8695			Tansimited to the OSI	10 (703) 740-4000; Oil alic C		
APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/8/13,742 03/31/2004 Jurgen Hug MAN03 P-114 5133  TITLE OF INVENTION: APPARATUS FOR DISCHARGING LOAD CARRIERS  APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1370 \$300 \$1670 01/24/2005  EXAMINER ART UNIT CLASS-SUBCLASS  HESS, DOUGLAS A 3651 19/8-457030  L. Change of correspondence address or indication of "Fee Address" (37 CFR 3.63) or respondence address or indication of "Fee Address" (37 CFR 3.64) or more recent) attached. Use of a Customer PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer PTO/SB/47 indication for "Fee Address" indication of "Fee Address" indication for "Fee Address indication for "Fee Address" indication for "Fee							(Signature)	
10/813,742 03/31/2004 Jurgen Hug MAN03 P-114 5133  TITLE OF INVENTION: APPARATUS FOR DISCHARGING LOAD CARRIERS  APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1370 \$300 \$1670 01/24/2005  EXAMINER ART UNIT CLASS-SUBCLASS  HESS, DOUGLAS A 3651 198-45/7030  [Change of correspondence address or indication of "Fee Address" (37 CFR 1,363).  [Change of correspondence address (or Change of Correspondence Address 'Indication form PTO/SB/1/2) attached.  [PEC Address' indication (or "Fee Address" Indication form Number is required.  3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)  PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.  (A) NAME OF ASSIGNEE  (B) RESIDENCE: (CITY and STATE OR COUNTRY)  Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group emity Government 4a. The following fee(s) are enclosed: Payment by credit card. Form PTO-2088 is attached.    Payment of Fee(s): A check in the amount of the fee(s) is enclosed.    Payment of Fee(s): A check in the amount of the fee(s) is enclosed.    Payment of Fee(s): A check in the amount of the fee(s) is enclosed.    Payment of Fee(s): A check in the amount of the fee(s) is enclosed.    Payment of Fee(s): A check in the amount of the fee(s) is enclosed.    Payment of Fee(s): A check in the amount of the fee(s) is enclosed.    Payment of Fee(s): A check in the amount of the fee(s) is enclosed.    Payment of Fee(s): A check in the amount of the fee(s) is enclosed.    Payment of Fee(s): A check in the amount of the fee(s) is enclosed.    Payment of Fee(s): A check in the amount of the fee(s): A check in the amount of the fee(s): A check in the amount of the fee(s): A check in the amount		•					(Date)	
APPLN: TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE  nonprovisional NO \$1370 \$300 \$1670 01/24/2005  EXAMINER ART UNIT CLASS-SUBCLASS  HESS, DOUGLAS A 3651 198-457030  1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.56).  CRR 1.563)  CR 1.563  CR 1.563  CR 1.563  CR 1.565	APPLICATION NO.	FILING DATE		FIRST NAMED INV	ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
APPLN TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1370 \$300 \$1670 01/24/2005  EXAMINER ART UNIT CLASS-SUBCLASS  HESS, DOUGLAS A 3651 198-457030    Change of correspondence address or indication of "Fee Address" (37   CFR 1.363).   Change of correspondence address or indication for "Fee Address" indication for "Fee Address for Indication for "Tee Address for Indication for Indicati	10/813,742	03/31/2004		Jurgen Hug		MAN03 P-114	5133	
APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE  nonprovisional NO \$1370 \$300 \$1670 01/24/2005  EXAMINER ART UNIT CLASS-SUBCLASS  HESS, DOUGLAS A 3651 198-457030  1. Change of correspondence address (or Change of Correspondence Address for PTO/SB1/122) attached.  CR 1, 363).	ŕ		RGING LOAD CA	• •				
NO   \$1370   \$300   \$1670   01/24/2005								
NO   \$1370   \$300   \$1670   01/24/2005	-	•	-			* *	· ·	
EXAMINER	APPLN. TYPE	SMALL ENTITY	ISSUE FI	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
HESS, DOUGLAS A 3651 198-457030  1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563).    Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached.   "Fee Address" indication (or "Fee Address" Indication form PTO/SB/122) attached. Use of a Customer Number is required.   "Fee Address" indication (or "Fee Address" Indication form PTO/SB/122) attached. Use of a Customer Number is required.   "Standard of PTO/SB/122 attached. Use of a Customer Number is required.   "Standard of PTO/SB/122 attached. Use of a Customer Number is required.   "Standard of PTO/SB/122 attached. Use of a Customer Number is required."   "Standard of PTO/SB/122 attached. Use of a Customer Number is required."   "Standard of PTO/SB/122 attached. Use of a Customer Number is required."   "Standard of PTO/SB/122 attached. Use of a Customer Number is required."   "Standard of PTO/SB/122 attached. Use of a Customer Number is required."   "Standard of PTO/SB/122 attached. Use of a Customer Number of a single firm (having as a member a registered attorney or agents. If no name is 1 Standard or agents of a single firm (having as a member a registered attorney or agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. If no name is 1 Standard or agents of agents. I	nonprovisional	NO	\$1370	)	\$300	\$1670	01/24/2005	
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).    Change of correspondence address (or Change of Correspondence Address from PTO/SB1/22) attached.   Tee Address from PTO/SB1/22) attached. (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, or agents OR, alternatively, and the names of up to 3 registered patent attorneys or agents. (2) the names of up to 3 registered patent attorneys or agents, (37 continued attorneys or agents), and the names of up to 3 registered patent attorneys or agents. (37 continued attorneys or agents, (37 continued attorneys), (32 the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. (48 continued attorneys) or agents, (49 the names of up to 2 registered patent attorneys or agents. (49 the names of up to 3 registered patent attorneys or agents. (49 the names of up to 3 registered patent attorneys or agents. (40 the names of up to 3 registered patent attorneys or agents. (40 the names of up to 3 registered patent attorneys or agents. (40 the names of up to 3 registered patent attorneys or agents. (40 the names of up to 3 registered patent attorneys or agents. (40 the names of up to 3 registered patent attorneys or agents. (41 the names of up to 3 registered patent attorneys or agents. (41 the names of up to 3 registered patent attorneys or agents. (41 the names of up to 3 registered attorney or agents. (42 the names of up to 3 registered attorney or agents. (43 the names of up to 3 registered patent attorneys or agents. (43 the names of up to 4 registered attorney or agents. (44 the names of up to 4 registered attorney or agents. (45 the names of up to 4 registered attorney or agent; or the assignee of up to 4 registered attorney or agent; or the assignee or other party in a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.	EXAM	IINER	ART UN	IT T	CLASS-SUBCLASS	7		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).    Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.   Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Use of a Customer PTO/SB/122) attached. Use of a Customer Number is required.    Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Use of a Customer PTO/SB/122) attached. Use of a Customer Number is required.    Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Use of a Customer PTO/SB/122 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is 1 listed, no name will be printed.    A SSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)	HESS, DO	UGLAS A	3651		198-457030	_		
Crange of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.     "Fee Address" indication (or "Fee Address" Indication form PTO/SB/122) attached.     "Fee Address" indication (or "Fee Address" Indication form PTO/SB/122) or more recent) attached. Use of a Customer Number is required.     "Fee Address" indication (or "Fee Address" Indication form PTO/SB/122) or more recent) attached. Use of a Customer Number is required.     "The Address" indication (or "Fee Address" Indication form PTO/SB/122) or more recent) attached. Use of a Customer Number is required.     "The Address" indication (or "Fee Address" Indication form PTO/SB/122) or more recent) attached. Use of a Customer Number is required.     "The Address" indication (or "Fee Address" Indication form PTO/SB/122) or more recent) attached. Use of a Customer Number is required attached.     "The Address" indication (or "Fee Address" Indication form PTO/SB/122) or more recent) attached.     "The Address" indication (or "Fee Address" Indication form PTO/SB/122) or agents OR, alternatively (2) the names of up to 3 registered patent attorneys or agents. If no name is or agents OR, alternatively or agents on Authorized Signature     "The Address" indication (or "Fee Address" Indication form PTO/SB/122) attached.     "The Address" indication (or "Fee Address" Indication form PTO/SB/122) attached.     "The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.     "The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.     "The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.     "The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if required) will not			ee Address" (37	2 For printing (	on the natent front nage 1	ist		
Address form PTO/SB/122) attached.    "Fee Address" indication (or "Fee Address" Indication form PTO/SB/147; Rev 03-02 or more recent) attached. Use of a Customer Number is required.    "See Address" indication (or "Fee Address" Indication form PTO/SB/147; Rev 03-02 or more recent) attached. Use of a Customer Number is required.    "See Address" indication (or "Fee Address" Indication form PTO/SB/147; Rev 03-02 or more recent) attached. Use of a Customer Number is required.    "See Address" indication (or "Fee Address" Indication form pto/SB/142) attached. Use of a Customer Number is required.    "See Address" indication (or "Fee Address" Indication form pto/SB/142) attached. Use of a Customer Number is required attorneys or agents. If no name is 1 istach, no name will be printed.    "ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)   The patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.    (A) NAME OF ASSIGNEE   (B) RESIDENCE: (CITY and STATE OR COUNTRY)    Please check the appropriate assignee category or categories (will not be printed on the patent):   Individual   Corporation or other private group entity   Government	CFR 1.363).			(1) the names of up to 3 registered patent attorneys				
Free Address* indication (or "Fee Address* Indication form PTO/SB/47: Rev 03-02 or more recent) attached. Use of a Customer Number is required.  3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)  PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.  (A) NAME OF ASSIGNEE  (B) RESIDENCE: (CITY and STATE OR COUNTRY)  Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government  4a. The following fee(s) are enclosed: 4b. Payment of Fee(s):  I ssue Fee  Publication Fee (No small entity discount permitted) Payment of Fee(s): A check in the amount of the fee(s) is enclosed.  Payment by credit card. Form PTO-2038 is attached.  Advance Order - # of Copies Payment of Fee(s): A check in the amount of the fee(s) is enclosed.  Payment by credit card. Form PTO-2038 is attached.  Advance Order - # of Copies Payment of Fee(s): A check in the amount of the fee(s) is enclosed.  Payment by credit card. Form PTO-2038 is attached.  Advance Order - # of Copies Payment of Fee(s): A check in the amount of the fee(s) is enclosed.  Payment by credit card. Form PTO-2038 is attached.  Deposit Account Number (enclose an extra copy of this form).  5. Change in Entity Status (from status indicated above)  a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.  b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).  The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if ray) or to re-apply any previously paid issue fee to the application identified above.  NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in inte	Address form PTO/SB/12	lence address (or Change of 22) attached.	Correspondence	3				
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filled for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.  (A) NAME OF ASSIGNEE  (B) RESIDENCE: (CITY and STATE OR COUNTRY)  Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government da. The following fee(s) are enclosed:   Individual Corporation or other private group entity Government da. The following fee(s) are enclosed:   Individual Corporation or other private group entity Government da. The following fee(s) are enclosed:   Individual Corporation or other private group entity Government da. The following fee(s) is enclosed.   Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached.   Payment by credit card. Form PTO-2038 is attached. Payment by credit card. Form PTO-2038 is attached. Peposit Account Number (enclose an extra copy of this form).  5. Change in Entity Status (from status indicated above) Cenclose an extra copy of this form).  The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.  Authorized Signature Date	"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is 3				
Residence check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government  4a. The following fee(s) are enclosed:    Issue Fee	3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	HE PATENT (pri	nt or type)			
Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government  4a. The following fee(s) are enclosed:    Issue Fee	PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be a 37 CFR 3.11. Completion	elow, no assignee of this form is NO	data will appear of a substitute for fi	n the patent. If an assigning an assignment.	nee is identified below, the o	document has been filed for	
4b. Payment of Fee(s):    Issue Fee	(A) NAME OF ASSIGN	EE	(В	) RESIDENCE: (C	CITY and STATE OR CO	OUNTRY)		
4b. Payment of Fee(s):    Issue Fee								
4b. Payment of Fee(s):    Issue Fee							_	
□ Issue Fee □ A check in the amount of the fee(s) is enclosed. □ Publication Fee (No small entity discount permitted) □ Advance Order - # of Copies □ □ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number □ (enclose an extra copy of this form).  5. Change in Entity Status (from status indicated above) □ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. □ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).  The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.  NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.  Date □	Please check the appropriate	assignee category or category	ries (will not be pr	inted on the patent	): 🗖 Individual 🗖 C	Corporation or other private gr	oup entity Government	
Payment by credit card. Form PTO-2038 is attached.  Advance Order - # of Copies		enclosed:	4b	. Payment of Fee(s	s):			
Advance Order - # of Copies	☐ Issue Fee			A check in the amount of the fee(s) is enclosed.				
Deposit Account Number	☐ Publication Fee (No small entity discount permitted)							
a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.  b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).  The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.  NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.  Date	Advance Order - # of Copies			The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.  NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.  Authorized Signature								
Authorized Signature Date								
	The Director of the USPTO NOTE: The Issue Fee and P interest as shown by the reco	is requested to apply the Iss bublication Fee (if required) ords of the United States Pat	ue Fee and Publica will not be accepted ent and Trademark	tion Fee (if any) or d from anyone othe Office.	to re-apply any previous or than the applicant; a reg	sly paid issue fee to the applic gistered attorney or agent; or t	ation identified above. the assignee or other party in	
	Authorized Signature Date							
Typed or printed name Registration No					Registration	n No	<del></del>	
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and					tain or retain a benefit by	the public which is to file (ar	nd by the USPTO to process)	

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USFTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/813,742			MAN03 P-114	5133		
28101	7590 10/22/2004		EXAM	INER		
•	VAN DYKE, GARDNER, LINN AND BURKHART, LLP			HESS, DOUGLAS A		
2851 CHARLEY P.O. BOX 8886	VOIX DRIVE, S.E. 95		ART UNIT	PAPER NUMBER		
	GRAND RAPIDS, MI 49588-8695		3651			
	•		DATE MAILED: 10/22/200	4		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



### UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspio.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,742	03/31/2004	Jurgen Hug	MAN03 P-114	5133
28101	7590 10/22/2004		EXAM	INER
VAN DYKE, GARDNER, LINN AND BURKHART, LLP			HESS, DOUGLAS A	
2851 CHARLEV	OIX DRIVE, S.E.			
P.O. BOX 88869	5		ART UNIT	PAPER NUMBER
GRAND RAPID	GRAND RAPIDS, MI 49588-8695		3651	
			DATE MAILED: 10/22/200	4

#### Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because some fees will increase effective October 1, 2004. See Revision of Patent Fees for Fiscal Year 2005; Final Rule, 69 Fed. Reg. 52604, 52606 (May 10, 2004).

The current fee schedule is accessible from WEB site (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), the issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedure (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))	\$685.00
By other than a small entity	
(b) Issue fee for issuing a design patent:	
By a small entity (Sec. 1.27(a))	\$245.00
By other than a small entity	
(c) Issue fee for issuing a plant patent:	
By a small entity (Sec. 1.27(a))	\$330.00
By other than a small entity	

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.